A METHOD FOR TEMPORARY ATTACHMENT OF A BONNET ONTO A HIGH-SPEED FOAM BUFF PAD

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to a method for temporarily attaching a cloth-like or foam pad bonnet onto a commercial buffing pad to be used in conjunction with a high-speed rotary machine for buffing the exterior of a vehicle.

2. Description of Related Art

Car detailers apply wax compounds and utilize a cloth, sponge, or round buffing pads to an exterior surface of a vehicle in order to provide a shiny appearance to the exterior. detailers accomplish the glossy finish by use of different buffing techniques which are; (a) orbital buffing machine, (b) high-speed buffing machine, (c) hand cloth or cloth mitten to rub the wax into the exterior of the vehicle which gives a polished apperance. The process of buffing the exterior depends on the condition of the surface of the exterior which may have light-to- moderate oxidation or light cosmetic scratches whereby the detailer will apply specific wax compounds and utilize diverse buffing pads to condition the exterior before completing the wax polishing of the exterior. The process of machine buffing and hand polishing is typically repeated each time the detailer applies the wax to a different portion of the vehicle. After the wax is applied, and while the wax is hardening to the exterior surface, the detailer must tediously continue to orbital machine buff or hand polish the exterior. The buffing and polishing steps are very challenging on the detailer as the detailer must continually change buffing pads or hand rags to complete a glossy finish on the exterior of the vehicle. Often times, due to fatigue or tiresome machine buffing and hand polishing, the detailer may forget to change-out the buffing pad or drop the hand cloth, due to fatigue, which will delay the detailer in completing the polishing of the exterior of the vehicle in a timely manner. In an attempt to remedy the aforementioned problems, some detailers resorted to cloth hand mittens or an orbital buffing machine. Hand cloth mittens are very tiresome to use due to the repeated hand and arm movement to achieve a polished finish on the exterior. The orbital buffing machine has, to some extent, alleviated the tiresome, repetitive hand/arm motion, but the limited buffing speed (revolutions-per-minute)

of the orbital machine and the specific buffing bonnets for orbital buffing machine does not achieve the desired polished finish required by the detailer, which in turn, the detailer has to make several buffing attempts with orbital buffing machine prompting the user to revert to a hand cloth or cloth mitten to complete the glossy finish on the exterior.

Therefore, there is a need for a method for attaching a buffing bonnet onto a high-speed buffing pad to buff the exterior of a vehicle which is convenient and immediate for the detailer in high-speed rotary buffing and polishing the exterior surface of a vehicle without the shortcomings of the prior art.

SUMMARY OF THE INVENTION

The present invention provides a method for temporarily attaching a bonnet onto a commercial buff pad that addresses the shortcomings of the prior art. In particular, pursuant to the invention, users may temporarily attach a cloth-like or foam pad bonnet onto a commercial buff pad to be use in conjunction with a high-speed rotary machine. In this manner, the user can expediently and without additional fatigue achieve a polished, glossy finish to the exterior vehicle without becoming encumbered or wearisome.

Pursuant to a first embodiment of the invention, a round commercial buff pad attachment device includes a cloth-like or foam pad holder that comprises a bonnet. The bonnet includes a perforated rubber-like circular material which acts as a cushion for the cloth-like material or foam pad and especially grips to the commercial round buff pad's circular front surface. The rubber-like material is inlayed and attached atop of a cloth-like or foam pad circular bottom. The circumference of both the inlayed rubber-like material and the cloth-like or foam pad bottom to be attached to a thin nylon material which encases a nylon string. The circumference of aforementioned circular materials to be sufficiently larger to wrap over standard commercial buff pad. In this manner, the bonnet unit can fully wrap over commercial buff pad and be cinched tight by drawstring .

Pursuant to a second embodiment, a round commercial buff attachment device includes elastic webbing which is affixed to the circumference of both the rubber-like and cloth-like or foam pad materials. Velcro tabs are affixed to the circumference of the elastic webbing. The circumference of both the inlayed rubber-like material and the cloth-like or foam pad bottom to be of sufficient circumference to wrap over standard commercial Velcro backed buff pad. In this manner, the bonnet unit can fully wrap over commercial

Velcro backed buff pad and attach to aforementioned Velcro pad with mating Velcro tabs which are part of the bonnet unit.

Pursuant to a third embodiment, a round commercial buff pad shall have the cloth-like and/or foam pad material adhered to the typical front side of commercial buff pad. Between the front side surface of commercial buff pad and the backside cloth-like or foam pad material there shall be a thin substrate material to give sufficient area for adhesion of cloth-like or foam pad material onto the commercial buff pad. The invention can generally be adhered onto standard commercial buff pad by above-mentioned procedure or be produced via a newly manufactured circular foam pad specifically for the cloth-like or foam pad material by the aforementioned process.

A more complete understanding of the method and system for temporary attachment of bonnet onto the buff pad will be afforded to those skilled in the art, as well as an understanding of additional advantages and objects thereof, by a consideration of the following detailed description of the preferred embodiment. Reference will be made to the appended sheets of drawings which will first be described briefly.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a perspective view of several embodiments of a round cloth-like and/or foam pad bonnet attachment devices, temporarily attached to a round buff pad;

Fig. 2 is a perspective view of a first embodiment of a round cloth-like and/or foam pad bonnet attachment device of the invention with a high-speed buffing machine;

Fig. 3 is a perspective view of a first embodiment of a round cloth-like and/or foam pad bonnet attachment device of the invention;

Fig. 4 is a perspective view of a second embodiment of a round cloth-like and/or foam pad bonnet attachment device of the invention with a high-speed buffing machine;

Fig. 5 is a perspective view of the second embodiment of a round cloth-like and/or foam pad bonnet attachment device of the invention;

Fig. 6 is a perspective view of third embodiment of a round cloth-like and/or foam pad bonnet attachment device of the invention with a high-speed buffing machine;

Fig. 7 is a perspective view of the third embodiment of a round cloth-like and/or foam pad bonnet attachment device of the invention;

Fig. 8 is a flow chart of a method pursuant to aspects of the invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

The present invention is directed towards a method for temporarily attaching a commercial buff pad to a cloth-like or foam pad bonnet. In particular, the present invention is directed to a method in which a user, such as a car detailer, buffs wax or other material, by means of a high-speed commercial buff pad, to an exterior surface of a vehicle in order to provide a glossy shine to the exterior surface. Pursuant to aspects of the invention, the user may place the high-speed commercial buff pad into the cloth-like or foam pad bonnet holder securely by means of the different attachments and connect the bonnet unit by means of a positive or negative (Velcro) backing plate which is secured to a high-speed rotary. In this manner, the commercial buff pad is securely attached to the cloth-like or foam pad bonnet and the user can expediently and conveniently complete the buffing or polishing of the exterior of the vehicle.

Fig. 1, 2, 4, & 6, shows several embodiments of different buff pad attachment devices, 100, 200, 300 temporarily attached to a round buff pad 22. The user may temporarily attach or replace the cloth-like and/or foam pad bonnet attachment device 100, 200, 300 onto buff pad 22 and buff pad 22 and attachment device 100, 200, 300 to be secured to a Velcro faced coupling device 24 which is connected to a high-speed rotary machine 26 conveniently.

Fig. 3 shows a first embodiment of a buff pad attachment device 100 onto a round buff pad 22 positioned within the assembly. As shown in Fig. 3, device 100 is assembled in the following manner; the cloth-like and/or foam pad bonnet material 102 has a perforated rubber-like material 104 backing and materials 102 and 104 are attached by a thin nylon material 106 which encases a nylon string 108 and the entire device 100 assembly can be constricted to nylon string 108 to secure device 100 onto buff pad 22.

Fig. 5 shows a second embodiment of a cloth-like and/or foam pad bonnet attachment device 200 with a round buff pad 22 positioned within the assembly. As shown in Fig. 4, device 200 is assembled in the following manner; the cloth-like and/or foam pad bonnet material 102 has a perforated rubber-like material 104 backing and materials 102 and 104 are attached to an elastic webbing 202 which is affixed to the circumference of materials 102 and 104. Velcro tabs 206 are attached to the circumference of elastic webbing 202 and the entire device 200 assembly is secured onto buff pad 22 by device 200 Velcro tabs 206 onto the back-side of buff pad 22 which already has existing hook or loop Velcro.

Fig. 7 shows a third embodiment of a cloth-like and/or foam pad bonnet attachment device 300 with a biff pad 22 positioned within the assembly. As shown in Fig. 6 – 7, device 300 is assembled in the following manner; the cloth-like and/or foam pad bonnet material 102 is adhered to a substrate material 302 to give sufficient support for cloth-like and/or foam pad bonnet material 102 and substrate material 302 is adhered to typical front side of buff pad 22. The invention can normally be adhered to a standard commercial buff pad after being produced/manufactured by the above-mentioned procedure or can be generally assembled during the manufacturing of buff pad 22 assembly.

Having thus described a preferred embodiment of a method for temporary cloth-like and/or foam pad bonnet attachment of a bonnet, it should be apparent to those skilled in the art that certain advantages of the within method have been achieved. It should also be appreciated that various modifications, adaptations, and alternative embodiments thereof may be made within the scope and spirit of the present invention. For example, the round buff pad attachment device using the aforementioned attaching methods as the attachment device has been illustrated, but it should be apparent that the inventive concepts described above would be equally applicable to other buff pad attachment devices, such as attachment devices comprising zipper mechanisms, buckle closure system, or clip(ing) devices. The invention is further defined by the following claims.